

Recombinant Human PAX8

Cat. No. PAX8-29058TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PAX8 with a proprietary tag: predicted molecular weight 75.24 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	451 amino acids
Description	This gene encodes a member of the paired box (PAX) family of transcription factors. Members of this gene family typically encode proteins that contain a paired box domain, an octapeptide, and a paired-type homeodomain. This nuclear protein is involved in thyroid follicular cell development and expression of thyroid-specific genes. Mutations in this gene have been associated with thyroid dysgenesis, thyroid follicular carcinomas and atypical follicular thyroid adenomas. Alternatively spliced transcript variants encoding different isoforms have been described.
Molecular Weight	75.240kDa inclusive of tags
Tissue specificity	Expressed in the excretory system, thyroid gland and Wilms tumors.
Biological activity	useful for Antibody Production and Protein Array
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MPHNSIRSGHGGLNQLGGAFVNGRPLPEVVRQRIVDLAHQGVRPCDISRQLRVSHG CVSKILGRYYETGSIRPGVIGGSKPKVATPKVVEKIGDYKRQNPTMFAWEIRDRLAE GVCDNDTVPSVSSINRIIRTKVQQPFNLPMDSCVATKSLSPGHTLIPSSAVTPPESPQ SDSLGSTYSINGLLGIAQPGSDKRKMDDSDQDSCRLSIDSQSSSSGPRKHLRTDAFS QHHLEPLECPFERQHYPEAYASPSHTKGEQGLYPLLLNSTLDDGKATLTPSNTPLG RNLSTHQ TYPVADPHSPFAIKQETPEVSSSSSTPSSLSSSAFLDLQQVGSVPPFN AFPHAASVYGQFTGQALLSGREMGPTLPGYPPHIPTSGQGSYASSAAGMVAGSE YSGNAYGHTPYSSYSEAWRFPNSSLLSSPYYSSTSRPSAPPTTATAFDHL
Sequence Similarities	Contains 1 paired domain.

GENE INFORMATION

Gene Name	PAX8 paired box 8 [Homo sapiens]
Official Symbol	PAX8
Synonyms	PAX8; paired box 8; paired box gene 8; paired box protein Pax-8;
Gene ID	7849
mRNA Refseq	NM_003466

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Protein Refseq	NP_003457
MIM	167415
Uniprot ID	Q06710
Chromosome Location	2q13
Pathway	Id Signaling Pathway, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Thyroid cancer, organism-specific biosystem; Thyroid cancer, conserved biosystem; Transcriptional misregulation in cancers, organism-specific biosystem;
Function	DNA binding; DNA binding; RNA polymerase II core promoter sequence-specific DNA binding; protein binding; sequence-specific DNA binding;

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